

# WØMTL - Mark Twain Land Area News — WØKEM

## AUGUST, 2009

# AMATEUR RADIO



### HARC OFFICERS

**PRESIDENT:** HOWARD BARNES, KØDFW  
**V-PRES:** J.D. SINCLAIR, WØAJD  
**SECRETARY:** FRED MILLER, KBØWIL  
**TREASURER:** TONY GILLILAND, WØPGL  
**TRUSTEE:** CLIFF AHRENS, KØCA  
**EDITOR:** BONNIE SINCLAIR, WBØWAP

**Next Scheduled Meeting: Wednesday  
 SEPTEMBER 9 , at 7:30 PM**

**NOTE:** No scheduled meeting in August due to the Barbeque.

Regular Meetings are held at Beth Haven Nursing Home, 2500 Pleasant St., Hannibal, Mo.  
 Enter at the main entrance; turn left through the lounge area to the elevator. Take the elevator down to the first floor, and go to your right/left around the corner, down the hall to the cafeteria.

### **FCC VE TEST DATES FOR YEAR OF 2009 Hannibal, MO ARC 2009 Exam Dates**

**Wednesday, October 14, 2009 - 8:30 p.m.**

Exams will take place at 8:30 PM after the regular scheduled HARC meeting. The exam session will be at the Beth Haven Nursing Home, in the Cafeteria on the 1st (lower) Floor, 2500 Pleasant St., Hannibal, MO. Registration is required at least 72 hours before the exam session by contacting the team liaison, Fred Miller- KBØWIL at [kb0wil@arrl.net](mailto:kb0wil@arrl.net) or 573-221-2429.

The 2009 test fee will be \$15.00. It goes to ARRL/VEC. Bring a photo ID (or two non-photo ID's); if currently licensed, bring the original and a photocopy of your valid FCC license; and if you are claiming credit for successful completion of an exam, bring the original and photocopy of any applicable CSCE's.



I can smell those chops & burgers NOW! YUMM!

**HARC Barbeque Sat., Aug 1ST, 2009: 5:00PM !!!**  
 We will have our annual club barbeque on Saturday August 1st, 2009. It will be at Huckleberry Park Pavilion. The club will provide, Pork Chops, Hamburgers, Hot Dogs, & buns. We will also bring Raspberry Tea to drink. Everyone is to bring there own silverware/plates, and a carry in of a food dish of something yummy. We will start to eat at approximately 5:00 PM! '

**This barbeque is for HARC members and their guests only. GUESS WHO IS COOKING!!**



## HANNIBAL AMATEUR RADIO CLUB MINUTES

### Minutes of the meeting recorded by: Fred-KBØWIL...HARC Secretary...

Date: July 8th, 2009

Location: Beth Haven Nursing Home 2500  
Pleasant St. Hannibal, Mo 63401

Meeting called to order by: Howie-KØDFW

### Approval of minutes in Newsletter:

Date of previous meeting: June 10th, 2009

Motion to approve: Mark-NØZOF

Seconded by: Ed-WA6JMR

### Treasurers report: Tony-WØPGL

Cash-\$921.54 CD-\$1, 274.02 Total-\$2,195.56

Motion to approve: Carol-WA9EFV

Seconded by: Ann-KB9BAL

### Repeater report: Fred-KBØWIL

The 146.625 & the 146.880 machines are working great.

### Hospital report: Tony-WØPGL & J.D.-WØAJD

Tony and J.D. have been working out to Hannibal Regional Hospital, setting up new radio equipment, to use in case of an emergency. They talked on HF to Jefferson City, Mo on Wednesday ( July 8th) with their area emergency coordinators. Tony discussed that there is still an issue with a lot of RF, in the vicinity of the HF equipment, and they are going to have to come up with a solution in regards to this issue.

### Field Day: June 27-28, 2009 ( 4A-MO)-

#### WØKEM Update :

We ended up with a very good score at this year's field day, and here are the scores, as advised by Cliff-KØCA.

CW-1306 Points Phone-500 Points

Digital-90 Points

The total score was (5042 Points ) with all of our extra bonus points we earned. Special thanks to Cliff-KØCA for de-ciphering all the logs, and sending in all of the scores to the ARRL.

Thanks to the following members, for helping out during 2009 Field Day this year. For helping set up/tear down, bringing there own equipment to use, Bringing drinks and or food, and especially operating the club equipment. Also, helping set up computers, and or taking care of the logging programming and turning in the event logs. We had a good event this year.

Cliff-KØCA, Howie-KØDFW, Bonnie-WBØWAP, J.D.-WØAJD, Tony-WØPGL, Oral-KBØECF, Jerry-KØGUG, Larry-WB2UFO, Ann-KB9BAL, Mark-NØZOF, Carol-WA9EFV, Jack-WD9CHG, Kermit-KØZXQ, Dave-W9WE, Kyle-KDØEBL, Luan-KC9PGS, Bill-WBØNWU, Don-KCØRML, Fred-KBØWIL.

Thanks as well to Sherry Nelson w/ Citizen Corp, who handed out Citizen Corp as well as HARC information at the event. She even bought us pizza for supper on Saturday Night.

Mike Hall-KB9TSW set up the 911 Emergency trailer, for everyone to see the new equipment they have installed in it. Several VHF/UHF radios, w/ linking capabilities and a satellite feed for TV and internet access.

Note\* We should also thank, Jana the manager at Mark Twain Amoco, (BP) for donating several bags of Ice to our Field Day event. She has done this for several years now. Telephone # 573-248-0062

Fred KBØWIL

### HARC Barbeque Saturday August 1ST, 2009:

**5:00PM !!!**

We will have our annual club barbeque on Saturday August 1st, 2009. It will be at Huckleberry Park Pavilion. Fred-KBØWIL will take care of the reservations for the pavilion. The club will provide, Pork Chops, Hamburgers, and Hot Dogs, and buns. We will also bring Raspberry Tea to drink. Everyone is to bring there own silverware/plates, and a carry in of a food dish of some type.. We will start to eat approximately 5:00 PM! This barbeque is for HARC members and their guests only.

**Special Note\*** We discussed about not having a club meeting in August, since we are having our club barbeque in August. Motion to approve: Mel-KCØHYY Seconded by: Ann-KB9BAL



We also discussed, about reserving Huckleberry Park for next years 2010 Field Day & HARC Barbeque. The dates are as follows: Field Day June 26-27, 2010 and HARC Barbeque July 31st, 2010. Fred-KBØWIL is going to make the reservations for these events next year.

**Note: The Quincy hamfest is on Saturday August 8th, 2009, see you there.**

#### **Auction tonight:**

Howie-KØDFW was the head auctioneer, and we auctioned off a very nice Field Day 2009 Teddy Bear that Bonnie-WBØWAP had donated to the club. Thanks Bonnie for donating the Teddy Bear, to help the club make some money. Cliff-KØCA was the high bidder, congratulations!

#### **50/50:**

The winner was Nancy Bartlett, and she donated the money back to the club.

Thank you Nancy, for this great gesture.

#### **Amateur Radio information:**

Don-KCØRML brought in some brochures regarding Ferrite Toroidal Beads & Cores, made by Amidon Company. Thanks Don for this info.

#### **VE-Testing:**

We had a VE exam session tonight ( July 8th, 2009). We had three applicants take the exams.

The VE's were Cliff-KØCA, Ed-NØWNV and Fred-KBØWIL.

**Total members: 19**

**Total guests: 5**

**Total in attendance: 24**

**Motion to adjourn: Mark-NØZOF**

**Seconded by: John-KC9MMO**

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### **FROM THE PRESIDENT'S DESK** **AUGUST 2009** **BY HOWARD BARNES K0DFW**

Well, field day has come and gone and I must say everyone that I know had a ball this year. It was a little warm the first day but by that evening the hurricane force winds and horizontal rain came thru and J.D. and I now know what it is

to be used as paper weights, holding down the plastic tarps over the top of the radio station that we had set up. But once the weather settled down we got back to some good old field day operations. I want to take a minute to congratulate everyone that participated in the event or the simple reason that we did a good job of doing it. Everyone pulled together in a team effort and I can't wait to see how we stack up in the 4A slot. I hope we are in the running for first of Missouri at the very least. The CW guys was giving the SSB guys a rough time over technical items trying to run over us..... but the SSB guys held there own.....heck if we hadn't of taken off during the night for 6 hours we could of beat the CW guys easy !!!!!!! Well maybe we are stretching that a little. :-) We had a good supper, thanks to Sherri Nelson and CERTS. The pizza hit the spot. We had a field day appetite because there wasn't much left over when we got thru with it. I was very proud of all that participated in the event and we did good !!!!

There will be no August meeting this month however we are having a club bar b que at 5:00 pm at Huckleberry Park at the big pavilion. Butterflied boneless pork chops, hamburgers and Ball Park hot dogs are on the entree list with a covered dish from all those attending. Bring your table setting. We will have water and some of Fred's Raspberry Tea which is very "goood"! This is August 1<sup>st</sup>, and I want to see everyone there. Its FREE FOOD! All you can eat. Do you need another reason to be there?

I am going to keep it short this week and I hope to see everyone at the bar b que. Word of wise is that 10 meters has been picking up a little and contacts are being made in the afternoon and evening. Check it out!!!

73s Howard K0DFW

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### **DX Horizons** **August 2009** **by Cliff Ahrens K0CA**

Both the Hannibal and Quincy clubs had a great time at Field Day 2009. I'm sure there will be detailed reports elsewhere in this newsletter, but I just wanted to thank everyone who came out and supported their local clubs this year. Field Day is



not only a lot of fun, but it's a great way to learn more about setting up equipment and antennas, and getting on the air, as well as enjoying the chance for eyeball QSOs. Now that Field Day is over, it's time to return to DXing. Here's some highlights about upcoming DX operations next month.

**3DA Swaziland.** A DXpedition signing 3DA0SS will be active in Swaziland from July 30th to August 11th. For more information, go to the team's Web page at [www.gi4fum.co.uk](http://www.gi4fum.co.uk). QSL via GI4FUM.

**4W East Timor.** Look for AI CT1GPQ operating from East Timor from August 3 to October 3, on 17-40 meters.

**5B Cyprus.** 5B/G4MKP plans to operate from Cyprus August 14 - 25. His operation will be primarily CW on 10 - 80 meters. QSL via M0URX.

**C2 Nauru.** Dani EA4ATI plans to be on the air as C21TI from Nauru Island August 16 - 24. He plans to operate 6 - 160 meters. For updates on Dani's operation visit his web page:  
<http://c21ti.madrono.net/>.

**FR/G Glorioso.** The much-anticipated Glorioso DXpedition has been postponed again. The group's web site now says "September 2009." For the latest plans, go to:  
<http://glorieuses2008.free.fr/index-e.htm>.

If disaster were to strike your computer right now, would all your data be safe? When's the last time you backed up your files? Your hard drive will fail - it's a question of when, not if, it will fail. There are lots of good software programs for backing up your data. What you need is something that will do it automatically, so you don't have to remember to do it. One freeware program is SyncBack. It will backup and synchronize your files and is easy to setup and configure to do automatic backups. It's available at:  
<http://www.2brightsparks.com/freeware/freeware-hub.html>.

That's it for this month. Don't forget to check the latest DX news in the daily and weekly DX bulletins.

73 and good DX, Cliff K0CA

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**COME JOIN THE  
REDNECK RETREAT GET-TOGETHER  
AUGUST 9, 2009**

Carol, WA9EFV, and Nancy Bartlett are having another Redneck Retreat Get-Together on August 9, 2009 at their place. Everyone is invited!! Carol says to "Come early and stay late!". Bring a covered dish of your choice, and your own place settings. Food will be served at Noon. Call them, and let them know if you are going to be there, and get directions to their "Redneck Retreat" if you have never been there. Carol and Nancy are the greatest hosts, and we always have a fun time and Oh, the food is soooooooo good!

Phone 217-335-2472 to let them know you will be there.



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**HARC MONDAY NIGHT NET  
CALL LIST OF VOLUNTEER OPERATORS  
AUGUST 2009**

<b>3</b>	<b>N9UPG BILL</b>	
<b>10</b>	<b>WØPGL</b>	<b>TONY</b>
<b>17</b>	<b>KØDFW</b>	<b>HOWARD</b>
<b>24</b>	<b>WØAJD</b>	<b>JD</b>
<b>31</b>	<b>KB9VIS</b>	<b>BRIAN</b>

**THANKS TO ALL!**

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## **THE 2009 FIELD DAY OPERATORS AND HELPERS**

Cliff-KØCA, Howie-KØDFW, Bonnie-WBØWAP,  
J.D.-WØAJD, Tony-WØPGL, Oral-KBØECF, Jerry-  
KØGUG, Larry-WB2UFO, Ann-KB9BAL, Mark-NØZOF,  
Carol-WA9EFV, Jack-WD9CHG, Kermit-KØZXQ, Dave-  
W9WE, Kyle-KDØEBL, Luan-KC9PGS,  
Bill-WBØNWU, Don-KCØRML, Fred-KBØWIL.

AND THANKS TO ALL WHO STOPPED BY!

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## **PICTURES OF THE 2009 FIELD DAY EVENTS**



KYLE, HOWIE, LARRY



ONLY JUST BEGUN!



MARK, JD

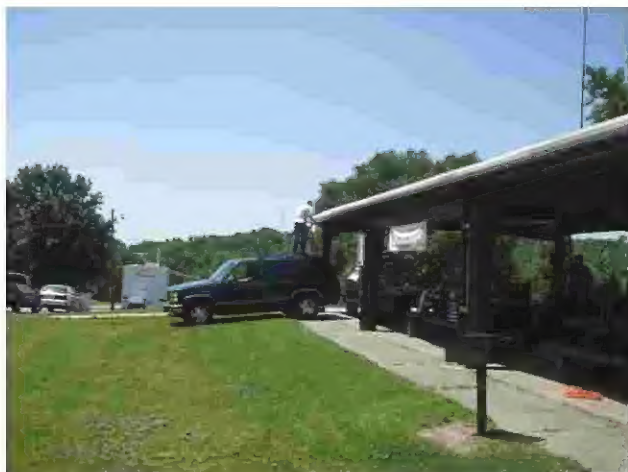


MARK, LARRY



LARRY, HOWIE, KYLE





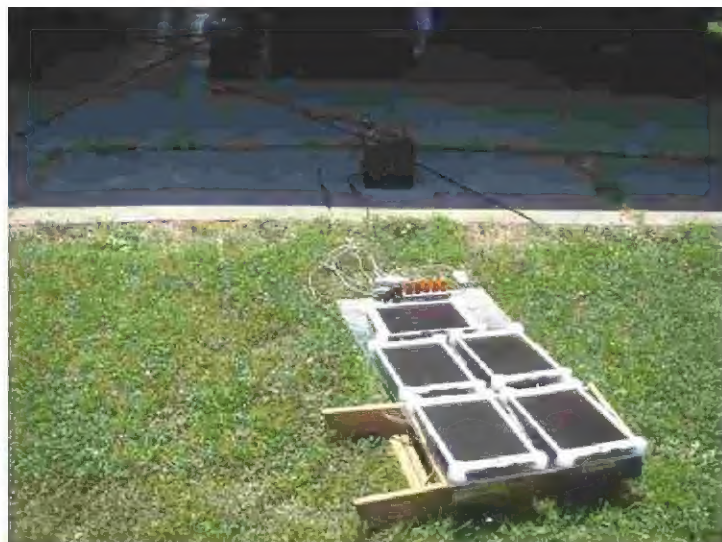
KYLE CLIMBING – TRUCK TO LADDER TO ROOF



KYLE, HE MADE IT!



KYLE



SOLAR CELLS BY LARRY



CLIFF, TONY, JERRY





TWO BROTHERS: HOWARD & ORAL



MARK, CLIFF, JERRY



FRED, JD



HOWARD, TONY



HOWIE, TONY, ORAL, AND A VISITOR



HOWARD, CAROL





FRED, LUAN, HOWIE



JAN, MARK, LUAN



HOWARD



JERRY



KYLE



ORAL, FRED

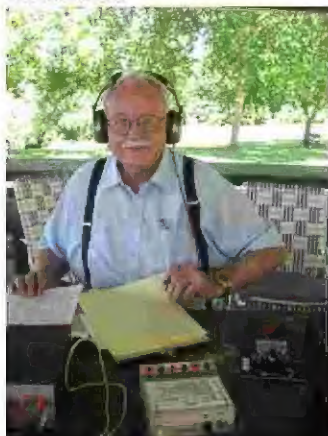




KERMIT



MARK, CLIFF, JERRY



KERMIT



TONY, CLIFF, JERRY



ANN, LARRY



HOWARD





JACK



JD, HOWIE, DURING THE RAIN STORM!



ORAL, FRED



JD, CLIFF, TONY



ANN, JAN, MARK, AND DOGGY



KERMIT, ORAL, FRED





ANN &amp; LARRY TAKING A LUNCH BREAK!

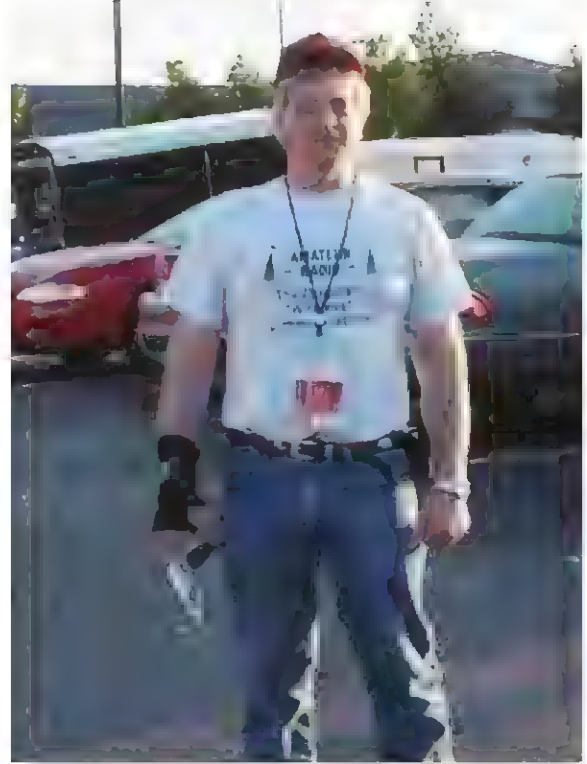
THE LAST OF THE GREAT EVENT  
2009 FIELD DAYS!

We had a great time, turnout, and we want to thank all who turned out and participated. Didn't get many pictures of the night shift, but we appreciated your being there.

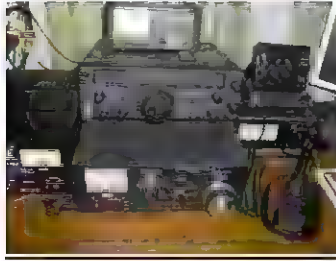
A special thanks to Larry & Ann, and Cliff for pictures!!

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### OUR 'HAM OF THE MONTH' FRED MILLER-KBØWIL

Fred's Hamshack





### **FRED MILLER-KBØWIL** **MY STORY**

I have been interested in radio, and how it worked since I was around 12 years old, a few moons ago. I had acquired an old AM radio that had seen better days, so my Mom and Grandfather, figured I couldn't hurt it any by tearing it apart. I took off the back cover, and marveled at all the parts I saw inside, I didn't have any idea what I was looking at, but it was a learning experience. I then plugged it back into an AC outlet, figuring it might blow up or catch on fire, without the back cover on. I learned that it would still work quite well, I did know enough to not stick my hands inside, while it was plugged in. Seeing the tubes glow, while it was operating, was pretty cool, to a 12 year old. Of course, I just had to adjust something inside it, to see what would happen. I did un-plug the power, before working on it like a Mad scientist; I had already learned the hard way how Alternating Current can bite. After turning a few pots, I plugged it back in and WALA!! it stopped receiving anything. So, that little experiment, didn't work very well. I then proceeded to try and remember what pots I turned, and in what direction. I did finally get it to receive again, how I don't know. I learned that while making adjustments, don't try and turn every pot, you see inside. I believe it had two tubes, several capacitors, resistors, and other parts. I wanted to know, what the other parts, did, or at least were named. My Mom picked up several books for me at the Hannibal Library, regarding radios. I was able

then to identify the various parts by name, still had no idea exactly what they did, but it was still fun.

The Barry, Illinois grade school had a science fair coming up that year, way back in 1970. I decided to enter my old AM radio as a science fair project, showing it with the back cover off, so the non-educated in electronics could see inside. My Mom, typed up all the information, regarding the parts inside, and I made a display out of old pegboard, with the help of my Grandfather. I wasn't much of a carpenter, but he could do anything with wood, when it involved a hammer and saw. I named my project "Radio", catchy title don't you think? I actually won a first place ribbon, I was really happy and surprised. I thought I was electronic expert in the making.

When I got into High School, I didn't experiment with the workings of any radio. I was into learning how to install my state of the art Eight Track tape player in my old 1963 Chevrolet Camaro 4-door hot rod. I had the Eight Track for a few years, and then I heard about Cassettes, and thought they were very cool, smaller and easier to operate, you could even rewind them, boy how great they were. Ha Ha. All my friends, asked why I went to Cassettes, as they thought Eight Tracks were here forever. How things have changed these days, if you asked most people born after 1990, about Cassettes, they would go huh? If you mention Eight Track tapes, they really think your way out there.

I did finally get into the AM radios that transmitted. Remember back in the Seventies, when you just had to have a CB to be anybody? My first Crazy Band radio was a Royce 23 channel, with a trunk mount antenna. It was rather fun, but then again, we were easily entertained in High School. I guess, I'm still easily entertained, with my radios even now. I still have that Royce rig, and it still works. Of course I am part pack rat, which a lot of us Hams are, never throw it away, you just might need it.

My Mom, knew Frank Brashears, as he was the man to repair anything electronic, in Hannibal. I went into Frank's back room, where he operated a few times, and was dumbfounded at looking at his set up with Amateur Radio equipment. I should have hung around Frank more, would have learned



a lot about radio, even how to show the local TV and Radio stations who had more operating power. Ha Ha. But, I wanted to do other things while in High School, so radio went way back in my list of priorities.

I started on the Burlington Northern Railroad, after high school, back in 1974. I worked on the track department all summer, into the fall, and they said we would probably be laid off that winter. I heard about an opening in the Signal Department, and talked with the Signal Supervisor, George Camp. He asked me if I would mind traveling, and I said no, sometimes I think that might have been the wrong answer. I started on the Signal Department in October 1974, here in Hannibal. Back then the yards on South Main, were still going fairly strong with activity, they had switching crews working all three shifts, a rip track, (they worked on the train cars, boxcars, gondolas, way cars, engines, etc.) The round house was still in use, with the turn table still operating. The old yard office had several employees working inside, roadmaster, trainmaster, signal supervisor, communications, and the dispatchers. Several other buildings were in service as well. It's a shame now, if you drive down Main Street here in Hannibal, it's all grown up in weeds and brush.

I first started out as an Assistant Signalman, and was mostly a gopher. We climbed the poles and dug the holes. If we actually got to help the Signalman, do some wiring on a signal project, or a new flasher crossing, it was a privilege. Most of the time, if you were an Assistant, you didn't dare stick your head in the bungalow, unless asked to do so, or suffer the wrath of the Signalman, and or, Signal Foremen. If there wasn't anything for us to do, while working on a project or new install, we shoveled dirt from one spot to another, and then back to the same spot. It was best to be out of site, and out of mind. Weed pulling, was another field we Assistants got be experts at. If you got in a few minutes early from the job, you pulled weeds until quitting time. I will say the locations never had any weeds around the signal gangs I worked on. You may think, why would you pull weeds until quitting time around your motel? Motels, we wish we had got to stay in Motels, we had to live, and sleep in Uni-vans (they looked like little white trailers mounted on flatcar), so they could move your

lodging by train from one town to another. Small towns weren't too bad, but you should try sleeping in downtown Chicago, Illinois, a few feet away from the main line tracks, with trains running day and night, 24 hours a day. Lots of fun. If they had ever derailed, we would have been dead meat. We did eventually, get to stay in Motels, we thought we were in Seventh Heaven, even having two of us in the same room. The railroad, started doing away with all the little sidings and side tracks, in which they had used to set out our Uni-vans. Thank goodness for progress of some sort.



Uni-vans

They may look nice, but the air conditioners didn't work half the time, no insulation in them, very hot in the summer, and very cold in the winter. The water pipes froze up all the time, because they weren't insulated, the gas water heaters pilot light, was always blowing out due to the fact it wasn't protected from the wind. The toilets, didn't use water to flush, they used a nasty smelling fluid, to clean them. The little varmints liked them as well, we never knew what we would find, when we came back after the weekends. Plus, you have eight guys in one single trailer that was meant for 6, not very roomy. They did have a refrigerator in them, and stoves, but the railroad wouldn't pay the extra gas expense for the stove, so they were disconnected from the propane lines. We still had to use our vehicles, to get home on weekends, as they only moved the uni-vans, after the jobs were done. Still think, they would be a nice place to stay? lol.. I've stayed in some very nasty motels with my railroad travels, but they were the Ritz Hilton compared to the uni-vans.

I was eventually promoted to Signalman, which was good, more pay, but a lot more responsibility. The railroad believed that once you were promoted to Signalman, you should know all there is to know about railroad signaling. You just don't learn much though, climbing poles and digging holes. Unless,



knowing that your climbing spurs, will gaff out on occasion, without you being prepared, and next thing you know you're halfway down the pole, wondering what just happened. Of course. It's always good to know how to operate, the highly complex manual backhoe. We even learned how to operate picks and bars. Everyone should also learn how to operate a cable buggy. You first climb the pole, after getting to the messenger (the messenger is the support cable, which holds up aerial cable which had various signal circuits in them), you then position the cable buggies rollers, on top of the messenger, lock in the security chains, and then wrap the wooden seat on the cable buggy underneath you, and hook it up to the chains hanging down from the cable buggy, and snap it all in place, and WALA! You're now hanging on the messenger, if it breaks, you fall and then you break as well. Of course now, there isn't hardly any pole line left to climb. It's all been replaced, by buried cable, signal circuitry in the rails, and microwave.

I was then promoted to a General CTC maintainer, and worked in various locations on the BNSF system. They didn't like you to stay, in one place very long. I was then a Relief Signal Maintainer, and I covered all the Maintainers who took vacation or got sick. It was good in some ways, as I was my own boss, most of the time, but I spent holidays, weekends gone for a month or longer. We didn't have cell phones back then, only pagers, and then you had to buy your own. I discovered a lot of little towns, between Chicago and Metropolis Il, and from Hannibal to Kansas City, and from Hannibal to St. Genevieve Mo. Even a few in Iowa as well. I finally was able to bid on a job close to home, as an old head retired. I worked out of Louisiana Mo, still on call, but at least able to stay home every night. That was in 1996, and I started talking with Phil Berberick, who was working in the communications department in Palmyra, Mo. He was studying his Technician Class Book one day, and I asked him about it. It got my curiosity about Amateur Radio going, so Phil said I should buy a study manual, and take the Technician Class exam. I purchased a Tech study manual early that spring, and took the test on April 27<sup>th</sup>, 1996, here in Hannibal. Cliff-KIØW, Gene-KWØD, and Marie-NSØZ were my examiners. I passed the exam, and was awarded my call sign of KBØWIL on May 1<sup>st</sup>, 1996.

I didn't really get on the air much at all, still being on call most of the time, was able to make a few meetings, but seemed like every time I wanted to go somewhere the BNSF had other ideas. Lol.

I am currently operating with a Yaesu FT 847 rig, I purchased new back in 1996, after I got my Technician Class license. I bought it because it had VHF/UHF capabilities along with HF. It has been a very good radio, with no problems. I have a few other rigs, Yaesu, Kenwood, and Icom. A Mosley Tri-beam antenna that I purchased from J.D.-WØAJD and its still working great. Of course, I would like to have a beam that covered, 10, 12, 15, 17, 20, and 40 meters, but I'm sure we all would. My G5RV antenna has worked several countries, and is only up about 30 feet, so I shouldn't complain.

After, I left the Railroad, I had more time to spend with Amateur Radio. So, I got my General Class license on May 15<sup>th</sup>, 2003, my Extra Class license on August 13<sup>th</sup>, 2003, and then became a Volunteer Examiner with the HARC, on August 21<sup>st</sup>, 2003.

I'm currently now, the HARC-Secretary, HARC Webmaster, HARC-VE Liaison and keep the HARC roster up to date. I do want to thank Cliff-KØCA for giving me several different functions I do, for the club. I never would have thought I would be doing anything on a website, before Cliff, gave me instructions, on how to work with HTML, hyperlinks, adding pictures, adding pages, installing new links, etc.

I'm also a Breakfast Club member, # 3050, and an ARLHS member # 801.

I enjoy amateur radio, even though I'm not a real big DX chaser, but do enjoy working a special event station that is not on the air very often. Even the special events here in the states. I really enjoy going to Dayton, Ohio every year, with Howie-KØDFW and Oral-KBØECF. I'm glad Howie, got my interest up about all the goodies in the flea market, which I enjoy the most.

That's my story.... Fred.....KBØWIL

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Ball signals were derived from tide signals, and were the earliest fixed signals used in the US. They were used at crossings, drawbridges, junctions, and as station signals, and were found principally in New England, but some existed as far south as Maryland and as far West as western New York State. The simple example shown here is said to have been the last ball signal in service. It was located at the B&M - MEC crossing in Whitefield, NH.



*Fred KBØWIL, is a huge asset to the HARC club, and a good friend, and we want to tell him that we greatly appreciate him, and all of his efforts for the HARC club. Enjoyed your story very much! Thanks for sharing!*  
**Bonnie, WBØWAP**

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**HANNIBAL AMATEUR RADIO CLUB, INC.**

**W0KEM & W0MTL**

**P.O. Box 1522**

**Hannibal, Mo 63401-1522**

**U.S.A**



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Website: <http://www.w0kem.com>

<http://www.w0kem.org>

